

Amendments to the Claims:

Please amend the claims as set forth below.

Patent claims

1. (Currently Amended) Headlamp for vehicles ~~with~~ comprising:
at least one planar luminous panel having a plurality of luminous-element chips;
~~and with~~ an optical element arranged in the beam path of the light beam emitted
by the luminous panel; ~~characterised in that~~
the luminous-element chips (4) of the luminous panel (3, 21, 31) are being
arranged in a common recess (5); ~~and in that~~
the recess (5) being on one side facing in the direction of light emission (8);
has an edge (9, 25, 32), ~~in such a way~~ the edge being in a spatial arrangement to
the luminous-element chips (4) such that a predetermined luminance gradient (G, G', G'')
in a light distribution (L) of the headlamp is formed in the region of the edges (9, 25, 32).
2. (Currently Amended) Headlamp according to claim 1, ~~characterised in that~~ wherein the recess (5) is trough-shaped with an edge wall (7, 7', 7'') which runs
perpendicularly to the direction of light emission (8) of the luminous panel (3) and stands
up from a bottom side (6) of the recess (5) and on whose side facing away from the
bottom side (6) runs the edge (9).
3. (Currently Amended) Headlamp according to claim 1 ~~or 2, characterised in that~~ wherein the edge (9) runs peripherally in a plane which is oriented perpendicularly
to the main direction of emission of the luminous panel (3).
4. (Currently Amended) Headlamp according to ~~any of~~ claims 1 wherein ~~to~~
3, ~~characterised in that~~ the shape of the edge wall (7, 7') and/or edge (9) is such that, in
combination with the optical element (2, 23, 34) mounted in front, a predetermined
luminance distribution is produced.

5. (Currently Amended) Headlamp according to ~~any of claims 1 to 4,~~
~~characterised in that~~ wherein the edge wall (7, 7') and/or the edge (9) of the recess (5) has
a rectangular or triangular or circle segment shape in a top view, and in that the edge (32,
32') has a break (33) for forming an asymmetrical light/dark boundary (LDB).

6. (Currently Amended) Headlamp according to ~~any of claims 1 to 5,~~
~~characterised in that~~ wherein several light-emitting diode chips (4) are arranged directly
adjoining at least the edge wall (7, 7') comprising the edge (9) which produces the
light/dark boundary (LDB).

7. (Currently Amended) Headlamp according to ~~any of claims 1 to 6,~~
~~characterised in that~~ wherein the recess (5) is filled with a light-converting luminescent
material, such that the light emitted by the luminous-element chips (4) is converted to
white light.

8. (Currently Amended) Headlamp according to ~~any of claims 1 to 7,~~
~~characterised in that~~ wherein the light-converting luminescent material is integrated in a
cast material which covers the recess (5).

9. (Currently Amended) Headlamp according to ~~any of claims 1 to 8,~~
~~characterised in that~~ wherein the bottom side (6) of the recess (5) is reflectively coated.

10. (Currently Amended) Headlamp according to ~~any of claims 1 to 9,~~
~~characterised in that~~ wherein the luminous panel (3) is integrated in a luminous plate (1),
the recess (5) being set in a front side (10) of the luminous plate (1) running
perpendicularly to the direction of light emission (8).